SEQUENCE LISTING

<110> Merck & Co., Inc.
Sano, Hideki
Tan, Carina P.
Howard, Andrew D.

<120> RHESUS MONKEY BOMBESIN RECEPTOR SUBTYPE-3 (BRS-3), NUCLEOTIDES ENCODING SAME, AND USES THEREOF

<130> 21198-PCT

<150> 60/463,776
<151> 2003-04-18

<160> 22

<170> FastSEQ for Windows Version 4.0

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<212> DNA
<213> Macaca mulatta

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<212> PRT
<213> Macacca mulatta

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Lys Gly Arg Ser Gly Asp Asn Ser Pro Gly Ile Glu Ala Leu Cys Ala
35 40 45
Ile Tyr Ile Thr Tyr Ala Val Ile Ile Ser Val Gly Ile Leu Gly Asn
50 55 60
Ala Ile Leu Ile Lys Val Phe Phe Lys Thr Lys Ser Met Gln Thr Val
65 70 75 80

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Pro Asn Ile Phe Ile Thr Ser Leu Ala Phe Gly Asp Leu Leu Leu Leu
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Leu Thr Cys Val Pro Val Asp Ala Thr His Tyr Leu Ala Glu Gly Trp
            100                 105                 110
Leu Phe Gly Arg Ile Gly Cys Lys Val Leu Ser Phe Ile Arg Leu Thr
        115                 120                 125
Ser Val Gly Val Ser Val Phe Thr Leu Thr Ile Leu Ser Ala Asp Arg
    130                 135                 140
Tyr Lys Ala Val Val Lys Pro Leu Glu Arg Gln Pro Ser Asn Ala Ile
145                 150                 155                 160
Leu Lys Thr Cys Ile Lys Ala Gly Cys Val Trp Ile Val Ser Met Ile
                165                 170                 175
Phe Ala Leu Pro Glu Ala Ile Phe Ser Asn Val Tyr Ser Phe Arg Asp
            180                 185                 190
Pro Asn Lys Asn Val Thr Phe Glu Ser Cys Thr Ser Tyr Pro Val Ser
        195                 200                 205
Lys Lys Leu Leu Gln Glu Ile His Ser Leu Leu Cys Phe Leu Val Phe
    210                 215                 220
Tyr Ile Ile Pro Leu Ser Ile Ile Ser Val Tyr Tyr Ser Leu Ile Ala
225                 230                 235                 240
Arg Thr Leu Tyr Lys Ser Thr Leu Asn Ile Pro Thr Glu Glu Gln Gly
                245                 250                 255
His Ala Arg Lys Gln Ile Glu Ser Arg Lys Arg Ile Ala Arg Thr Val
            260                 265                 270
Leu Val Leu Val Ala Leu Phe Ala Leu Cys Trp Leu Pro Asn His Leu
        275                 280                 285
Leu Tyr Leu Tyr His Ser Phe Thr Ser Gln Thr Tyr Val Asp Pro Ser
    290                 295                 300
Ala Met His Phe Ile Phe Thr Ile Phe Ser Arg Val Leu Ala Phe Ser
305                 310                 315                 320
Asn Ser Cys Val Asn Pro Phe Ala Leu Tyr Trp Leu Ser Lys Thr Phe
                325                 330                 335
Gln Lys His Phe Lys Ala Gln Leu Phe Cys Cys Lys Ala Glu Gln Pro
            340                 345                 350
Glu Pro Pro Val Ala Asp Thr Ser Leu Thr Thr Leu Ala Val Met Gly
        355                 360                 365
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<210> 4
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<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 4
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<210> 5
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<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 5
gctctctttc atccggctc 19

<210> 6
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<220>
<223> PCR primer

<400> 6
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<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 7
catgcccgta agcaggtt 18

<210> 8
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<220>
<223> PCR primer

<400> 8
cagcagaggg caaacagag 19

<210> 9
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<212> DNA
<213> Artificial Sequence

<220>
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<400> 9
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<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 10

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<220>
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<400> 11
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<210> 12
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<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 12
ccagtggatg caacccacta 20

<210> 13
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 13
ttccgaacag ccatccttct gcaag 25

<210> 14
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 14
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<210> 15
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 15
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<210> 16
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 16
cccttccatc gtccaccgca aat 23

<210> 17
<211> 1200
<212> DNA
<213> Homo sapiens

<400> 17
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tctccaggaa tagaagcatt gtgtgccatc tatattactt atgctgtgat catttcagtg 180
ggcatccttg gaaatgctat tctcatcaaa gtctttttca agaccaaatc catgcaaaca 240
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<210> 18
<211> 1200
<212> DNA
<213> Rattus norvegicus

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tctccaggaa tagaagcact gtgtgccatc tatatcactt atgctgtgat catttcagtg 180
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<210> 19
<211> 1199
<212> DNA
<213> Artificial Sequence

<220>
<223> BRS-3 consensus sequence

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<210> 20
<211> 399
<212> PRT
<213> Homo Sapiens

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20 25 30
Asn Lys Gly Trp Ser Gly Asp Asn Ser Pro Gly Ile Glu Ala Leu Cys
35 40 45
Ala Ile Tyr Ile Thr Tyr Ala Val Ile Ile Ser Val Gly Ile Leu Gly
50 55 60
Asn Ala Ile Leu Ile Lys Val Phe Phe Lys Thr Lys Ser Met Gln Thr
65 70 75 80
Val Pro Asn Ile Phe Ile Thr Ser Leu Ala Phe Gly Asp Leu Leu Leu
85 90 95
Leu Leu Thr Cys Val Pro Val Asp Ala Thr His Tyr Leu Ala Glu Gly
100 105 110
Trp Leu Phe Gly Arg Ile Gly Cys Lys Val Leu Ser Phe Ile Arg Leu
115 120 125
Thr Ser Val Gly Val Ser Val Phe Thr Leu Thr Ile Leu Ser Ala Asp
130 135 140
Arg Tyr Lys Ala Val Val Lys Pro Leu Glu Arg Gln Pro Ser Asn Ala
145 150 155 160
Ile Leu Lys Thr Cys Val Lys Ala Gly Cys Val Trp Ile Val Ser Met
165 170 175
Ile Phe Ala Leu Pro Glu Ala Ile Phe Ser Asn Val Tyr Thr Phe Arg
180 185 190
Asp Pro Asn Lys Asn Met Thr Phe Glu Ser Cys Thr Ser Tyr Pro Val
195 200 205
Ser Lys Lys Leu Leu Gln Glu Ile His Ser Leu Leu Cys Phe Leu Val
210 215 220
Phe Tyr Ile Ile Pro Leu Ser Ile Ile Ser Val Tyr Tyr Ser Leu Ile
225 230 235 240
Ala Arg Thr Leu Tyr Lys Ser Thr Leu Asn Ile Pro Thr Glu Glu Gln
245 250 255

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Ser His Ala Arg Lys Gln Ile Glu Ser Arg Lys Arg Ile Ala Arg Thr
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Val Leu Val Leu Val Ala Leu Phe Ala Leu Cys Trp Leu Pro Asn His
        275                 280                 285
Leu Leu Tyr Leu Tyr His Ser Phe Thr Ser Gln Thr Tyr Val Asp Pro
    290                 295                 300
Ser Ala Met His Phe Ile Phe Thr Ile Phe Ser Arg Val Leu Ala Phe
305                 310                 315                 320
Ser Asn Ser Cys Val Asn Pro Phe Ala Leu Tyr Trp Leu Ser Lys Ser
                325                 330                 335
Phe Gln Lys His Phe Lys Ala Gln Leu Phe Cys Cys Lys Ala Glu Arg
            340                 345                 350
Pro Glu Pro Pro Val Ala Asp Thr Ser Leu Thr Thr Leu Ala Val Met
        355                 360                 365
Gly Thr Val Pro Gly Thr Gly Ser Ile Gln Met Ser Glu Ile Ser Val
    370                 375                 380
Thr Ser Phe Thr Gly Cys Ser Val Lys Gln Ala Glu Asp Arg Phe
385                 390                 395
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<210> 21
<211> 399
<212> PRT
<213> Rattus norvegicus

<400> 21

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            20                  25                  30
Pro Lys Gly Trp Thr Gly Asp Asn Ser Pro Gly Ile Glu Ala Leu Cys
        35                  40                  45
Ala Ile Tyr Ile Thr Tyr Ala Val Ile Ile Ser Val Gly Ile Leu Gly
    50                  55                  60
Asn Ala Ile Leu Ile Lys Val Phe Phe Lys Thr Lys Ser Met Gln Thr
65                  70                  75                  80
Val Pro Asn Ile Phe Ile Thr Ser Leu Ala Phe Gly Asp Leu Leu Leu
                85                  90                  95
Leu Leu Thr Cys Val Pro Val Asp Ala Thr His Tyr Leu Ala Glu Gly
            100                 105                 110
Trp Leu Phe Gly Lys Val Gly Cys Lys Val Leu Ser Phe Ile Arg Leu
        115                 120                 125
Thr Ser Val Gly Val Ser Val Phe Thr Leu Thr Ile Leu Ser Ala Asp
    130                 135                 140
Arg Tyr Lys Ala Val Val Lys Pro Leu Glu Arg Gln Pro Ser Asn Ala
145                 150                 155                 160
Ile Leu Lys Thr Cys Ala Lys Ala Gly Gly Ile Trp Ile Met Ala Met
                165                 170                 175
Ile Phe Ala Leu Pro Glu Ala Ile Phe Ser Asn Val Tyr Thr Phe Gln
            180                 185                 190
Asp Pro Asn Arg Asn Val Thr Phe Glu Ser Cys Asn Ser Tyr Pro Ile
        195                 200                 205
Ser Glu Arg Leu Leu Gln Glu Ile His Ser Leu Leu Cys Phe Leu Val
    210                 215                 220
Phe Tyr Ile Ile Pro Leu Ser Ile Ile Ser Val Tyr Tyr Ser Leu Ile
225                 230                 235                 240
Ala Arg Thr Leu Tyr Lys Ser Thr Leu Asn Ile Pro Thr Glu Glu Gln
                245                 250                 255
Ser His Ala Arg Lys Gln Ile Glu Ser Arg Lys Arg Ile Ala Lys Thr
            260                 265                 270
Val Leu Val Leu Val Ala Leu Phe Ala Leu Cys Trp Leu Pro Asn His
        275                 280                 285
Leu Leu Tyr Leu Tyr His Ser Phe Thr Tyr Glu Ser Tyr Ala Glu Pro
    290                 295                 300
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Ser Asp Val Pro Phe Val Val Thr Ile Phe Ser Arg Val Leu Ala Phe
305 310 315 320
Ser Asn Ser Cys Val Asn Pro Phe Ala Leu Tyr Trp Leu Ser Lys Thr
325 330 335
Phe Gln Lys His Phe Lys Ala Gln Leu Cys Cys Phe Lys Ala Glu Gln
340 345 350
Pro Glu Pro Pro Leu Gly Asp Thr Pro Leu Asn Asn Leu Thr Val Met
355 360 365
Gly Arg Val Pro Ala Thr Gly Ser Ala His Val Ser Glu Ile Ser Val
370 375 380
Thr Leu Phe Ser Gly Ser Thr Ala Lys Lys Gly Glu Asp Lys Val
385 390 395

<210> 22
<211> 399
<212> PRT
<213> Artificial Sequence

<220>
<223> BRS-3 consensus sequence

<400> 22
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20 25 30
Asn Lys Gly Trp Ser Gly Asp Asn Ser Pro Gly Ile Glu Ala Leu Cys
35 40 45
Ala Ile Tyr Ile Thr Tyr Ala Val Ile Ile Ser Val Gly Ile Leu Gly
50 55 60
Asn Ala Ile Leu Ile Lys Val Phe Phe Lys Thr Lys Ser Met Gln Thr
65 70 75 80
Val Pro Asn Ile Phe Ile Thr Ser Leu Ala Phe Gly Asp Leu Leu Leu
85 90 95
Leu Leu Thr Cys Val Pro Val Asp Ala Thr His Tyr Leu Ala Glu Gly
100 105 110
Trp Leu Phe Gly Arg Ile Gly Cys Lys Val Leu Ser Phe Ile Arg Leu
115 120 125
Thr Ser Val Gly Val Ser Val Phe Thr Leu Thr Ile Leu Ser Ala Asp
130 135 140
Arg Tyr Lys Ala Val Val Lys Pro Leu Glu Arg Gln Pro Ser Asn Ala
145 150 155 160
Ile Leu Lys Thr Cys Ile Lys Ala Gly Cys Val Trp Ile Val Ser Met
165 170 175
Ile Phe Ala Leu Pro Glu Ala Ile Phe Ser Asn Val Tyr Thr Phe Arg
180 185 190
Asp Pro Asn Lys Asn Val Thr Phe Glu Ser Cys Thr Ser Tyr Pro Val
195 200 205
Ser Lys Lys Leu Leu Gln Glu Ile His Ser Leu Leu Cys Phe Leu Val
210 215 220
Phe Tyr Ile Ile Pro Leu Ser Ile Ile Ser Val Tyr Tyr Ser Leu Ile
225 230 235 240
Ala Arg Thr Leu Tyr Lys Ser Thr Leu Asn Ile Pro Thr Glu Glu Gln
245 250 255
Ser His Ala Arg Lys Gln Ile Glu Ser Arg Lys Arg Ile Ala Arg Thr
260 265 270
Val Leu Val Leu Val Ala Leu Phe Ala Leu Cys Trp Leu Pro Asn His
275 280 285
Leu Leu Tyr Leu Tyr His Ser Phe Thr Ser Gln Thr Tyr Val Asp Pro
290 295 300
Ser Ala Met His Phe Ile Phe Thr Ile Phe Ser Arg Val Leu Ala Phe
305 310 315 320
Ser Asn Ser Cys Val Asn Pro Phe Ala Leu Tyr Trp Leu Ser Lys Thr

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                                325                                 330                                 335
Phe Gln Lys His Phe Lys Ala Gln Leu Phe Cys Cys Lys Ala Glu Gln
            340                 345                 350
Pro Glu Pro Pro Val Ala Asp Thr Ser Leu Thr Thr Leu Ala Val Met
        355                 360                 365
Gly Arg Val Pro Gly Thr Gly Ser Ile Gln Met Ser Glu Ile Ser Val
    370                 375                 380
Thr Ser Phe Ser Gly Cys Ser Val Lys Gln Ala Glu Asp Arg Val
385                 390                 395
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